

LABORATORY REPORT

Prepared For: Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114
Attention: Diana Marquez

Project: QAS-Marsh Ave 65289

Sampled: 09/15/12
Received: 09/18/12
Issued: 09/25/12 13:40

NELAP #01109CA / AZ100001 California ELAP#2446 Arizona DHS#AZ0728 Nevada #AZ01030 ORELAP #AZ100001

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PVII186-01
PVII186-02
PVII186-03
PVII186-04

CLIENT ID

TP127W01/16-21
DP127W02/28-32
TP128W04/49.3-54.3
TP126W02/36.7-467

MATRIX

Water
Water
Water
Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: N1 - 8270-1,4-Dioxane - PVII186-04 - Concentration exceeds the calibration range and therefore result is semi-quantitative. Analysis is an Isotope dilution which can only be diluted at the point of extraction and not after. There was only 1 bottle provided, unable to reextract.

Reviewed By:



TestAmerica Phoenix

Linda Eshelman
Project Manager

Burns & McDonnell
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1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI1186-01 (TP127W01/16-21 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	12I0770	1.0	ND	1.05	9/20/2012	9/22/2012	
Surrogate: 1,4-Dioxane-d8 (14-125%)				77 %				
Surrogate: Nitrobenzene-d5 (27-143%)				80 %				
Sample ID: PVI1186-02 (DP127W02/28-32 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	12I0770	1.0	19	1	9/20/2012	9/22/2012	
Surrogate: 1,4-Dioxane-d8 (14-125%)				79 %				
Surrogate: Nitrobenzene-d5 (27-143%)				74 %				
Sample ID: PVI1186-03 (TP128W04/49.3-54.3 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	12I0770	1.2	8.6	1.25	9/20/2012	9/22/2012	
Surrogate: 1,4-Dioxane-d8 (14-125%)				69 %				
Surrogate: Nitrobenzene-d5 (27-143%)				72 %				
Sample ID: PVI1186-04 (TP126W02/36.7-467 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	12I0770	1.2	760	1.22	9/20/2012	9/22/2012	N1
Surrogate: 1,4-Dioxane-d8 (14-125%)				66 %				
Surrogate: Nitrobenzene-d5 (27-143%)				64 %				

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PVI1186 <Page 2 of 4>

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METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1210770 Extracted: 09/20/12										
Blank Analyzed: 09/21/2012 (1210770-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	15.6		ug/l	20.0		78	14-125			
Surrogate: Nitrobenzene-d5	14.9		ug/l	20.0		75	27-143			
LCS Analyzed: 09/21/2012 (1210770-BS1)										
1,4-Dioxane	19.8	1.0	ug/l	20.0		99	85-116			
Surrogate: 1,4-Dioxane-d8	14.6		ug/l	20.0		73	23-132			
Surrogate: Nitrobenzene-d5	14.6		ug/l	20.0		73	28-150			
LCS Dup Analyzed: 09/21/2012 (1210770-BSD1)										
1,4-Dioxane	19.6	1.0	ug/l	20.0		98	85-116	0.9	20	
Surrogate: 1,4-Dioxane-d8	15.4		ug/l	20.0		77	23-132			
Surrogate: Nitrobenzene-d5	15.6		ug/l	20.0		78	28-150			
Matrix Spike Analyzed: 09/21/2012 (1210770-MS1)										
1,4-Dioxane	20.6	1.0	ug/l	21.3	ND	97	65-138			
Surrogate: 1,4-Dioxane-d8	16.4		ug/l	21.3		77	14-125			
Surrogate: Nitrobenzene-d5	16.4		ug/l	21.3		77	27-143			
Matrix Spike Dup Analyzed: 09/21/2012 (1210770-MSD1)										
1,4-Dioxane	20.4	1.0	ug/l	21.3	ND	96	65-138	0.7	20	
Surrogate: 1,4-Dioxane-d8	16.8		ug/l	21.3		79	14-125			
Surrogate: Nitrobenzene-d5	16.7		ug/l	21.3		78	27-143			

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PVI1186 <Page 3 of 4>

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DATA QUALIFIERS AND DEFINITIONS

N1 See case narrative.
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

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PVI1186 <Page 4 of 4>

Page 1 of 1

234